

User Manual

For MJPEG Cameras

Version: US 2.0

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Notice: Certain functions mentioned in this manual may vary according to camera's model. For example, pan and tilt function are for Pan/Tilt enabled cameras only.

Basic Setup

For basic installation, please turn to **Operation Guide for Windows Web Browser or Operation Guide for Mac Web Browser** of Quick Start Guide and follow the manual step by step.

Camera Settings

Click this Settings Button Settings for camera Settings.

Notice: Certain functions mentioned in this manual may vary according to camera's model. For example, pan and tilt function are for Pan/Tilt enabled cameras only.

System

About

Basic Device Information & Customer Service Information.

Alias	IPCamera
Device Hardware Version	Ver 1.8
Device Firmware Version	Ver 1.8.0.7
P2P Serial Number	FN4XAXR64S7BH56PYFXJ
MAC Address	00-12-34-ff-f8-81
Wi-Fi Status	Connected<>RD
Select Language	English ▼

Alias	Camera's name
P2P Serial Number	Camera's P2P serial number
Device Hardware Version	Camera's hardware version
Device Firmware Version	Camera's firmware version
MAC Address	LAN MAC address
Wi-Fi Status	Wi-Fi Status

System User

Adding and updating user accounts



Defined user contains three different user levels.

Different access is granted to different user levels as specified in the following sheet.

Live	Deserred	Snapsh	Video	Carrad	Talliba ali	PT	Cattings
Video	Record	ots	adjustment	Sound	Talkback	operation	Settings

Admin	٧	٧	٧	٧	٧	٧	٧	٧
Operator	٧	٧	٧	٧	٧	٧	٧	×
Guest	٧	٧	٧	×	٧	٧	×	×

Network

IP Config

The Camera's Basic Network Settings

Obtain IP address from DHCP server	Disable Enable
IP Address	192.168.1.239
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server1	8.8.8.8
Web Port	7777

Obtain IP	Enable or disable obtaining IP address from DHCP server automatically. If
address from	it is enabled, IP address and other items cannot be changed manually.
DHCP server	
IP Address	Camera's local network IP address, which is used to view the camera in
	the same local area network.
	Specify a unique IP address for your network camera.
Net Mask	Specify the mask for the subnet the network camera is located on
Default Gateway	Specify the IP address of the default gateway (router) used for connecting
	devices attached to different networks and network segments
DNS Server	DNS (Domain Name Service) provides the translation of host names to IP
	addresses of your network
Web Port	Camera's communications port which is set to send video and audio data

UPnp



Universal Plug and Play (UPnP) is an architecture for peer-to-peer network connectivity and it will connect to the IP camera from Internet more seamlessly

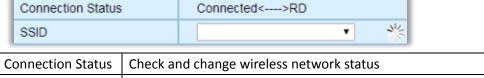


As UPnP is also easily affected by router or firewall, sometimes it may show failed status. If this happens, please forward the camera's port on your router manually. Whether UPnP

succeeds or not, it will not affect the camera's remote access.

Wi-Fi

Configuring WI-FI connection



Connection Status	Check and change wireless network status
SSID	All the nearby wireless signals visible to the camera
Wi-Fi Password	The password or key of wireless network

For Set-up procedure please refer to Wireless Setup

DDNS

Configuring the camera's DDNS for remote view



Built-in DDNS	This IP Camera has been set with free default built-in DDNS. You can
Configuration	enable or disable it. If the DDNS status is "successful", you can view the
	camera from Internet after you forward the camera's port through your
	router.
Third-party DDNS	This camera supports third-party DDNS providers.
Configuration	



1. What is DDNS?

DDNS (Dynamic DNS) is a service that maps Internet domain names to IP addresses. Thus we do not need to know the changing IP address in order to view the camera through the relevant DDNS server.

Alarm Setting

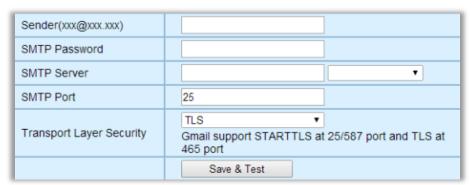
Alarm Setting



Enable Alarm	Enable or disable the motion detection alarm
Sensitivity	The sensitivity of the motion detection alarm.
Warning Tone	It will get warning tone in Internet Explorer live video page
Email Alert	Sending alarm pictures to the specified email when the camera detects
	the movements
Upload Snapshots	Sending alarm pictures to FTP server set in advance when the camera
to FTP Server	detects movement.
Back to Preset	Moves camera to a preset position once the camera detects moving
	objects (this is only available for Pan/Tilt IP camera).
Upload Interval	Upload interval for uploading snapshots to FTP server
(Seconds)	
Schedule	Specified motion detection period with 15 minutes a unit and one
	week per cycle.

Email Setting

Once the motion detection alarm is enabled, camera will send snapshots to sender email box itself when it detects the moving objects.



Sender(xxx@xxx.xxx)	Email address for sending the alarm email
SMTP Server	Sending emails provider 's SMTP server address
SMTP Port	Service port of SMTP server
Transport Layer Security	Encryption protocol of SMTP Server
Need Authentication	Need to authenticate sender's right
SMTP Password	Sender email's login password

E-mail Alarm Configuration



Sender is your own email address. Since common email providers have a better service experience and the built-in email provider SMTP servers are easier to set up, you are strongly advised to use Gmail, Yahoo and other common email services as the sender email.

Sender is also the email to accept the email alerts.

SMTP Server: The SMTP (short for Simple Mail Transfer Protocol) works like a post assistant, handling the sending of emails from the camera to an email server. SMTP Server receives outgoing mail messages from users to the mail recipients they are intended for.

If your sender email provider is a public server, you can search the IP address of the email provider's SMTP server or DDNS from Google.

If your sender email provider is a private one, you can consult with the email provider's customer service.

SMTP Port: Service port of SMTP server which you can get with the above procedure Transport Layer Security: Encryption protocol of SMTP Server and you can also get it from the above procedure

SMTP Password: The password you use to login to the SMTP server which is also the sender email password



Go back to alarm settings and enable E-Mail Alert to finfish the whole e-mail alert settings.





Notice:

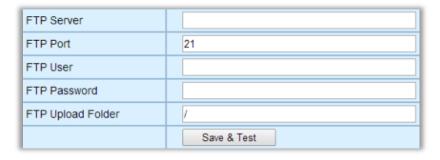
- 1. Please try again if it shows "Can not connect to SMTP server!"
- 2. Please check the basic network settings of the camera if it failed the test.
- 3. There might be some delay for motion detection alarm since it is related to the network condition and the service quality of the sender email's provider. Thus it is beyond the control of IP camera.
- 4. If you still can not receive any email alert after getting the test email, please check your spam box and add your sender email address in the trust list of the recipient email once your find it in spam.



The email alert is sent via sender email's provider server which is an SMTP server. Once the camera signs in to the SMTP server, the email alert will be delivered to the recipient email after getting SMTP server's authentication. Therefore, the sender email, recipient email and the SMTP server are all required.

FTP Setting

FTP, short for File Transfer Protocol, is used to transfer files between computers on a network. You can upload camera's alarm snapshots to your FTP storage. Thus, there is no need to keep the computer on when the motion detection alarm is triggered.



FTP Server	FTP server's address	
FTP Port (default 21)	FTP server's port	
FTP User	FTP server's username	
FTP Password	FTP server's password	
FTP Upload Folder	The upload folder of FTP	

FTP Alarm Configuration



FTP Server: FTP server's IP address and DNS which could be required from FTP server provider.

FTP Port: Communication port of FTP server and the default port is 21.

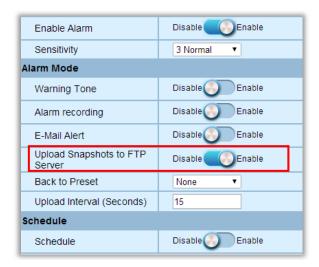
FTP User: Username for you to sign in FTP server which could be required from FTP server provider.

FTP Password: Password for you to login FTP server which could be required from FTP server provider.

Then click Save and Test. Once it says "Succeed" that means the camera has set FTP settings successfully.



Go back to alarm settings and enable **Upload Snapshots to FTP Server** to finfish the whole FTP alert settings.



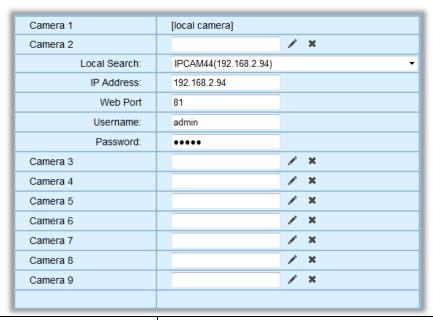


Notice:

- 1. Please check the basic network settings of the camera if failed in test.
- 2. FTP server is offered by FTP provider. We do not provide FTP service. Web Hosting usually supports FTP.
- 3. Please make sure the camera is authorized to upload alarm pictures. For detailed information, please consult with the FTP server provider.

Multi-Camera

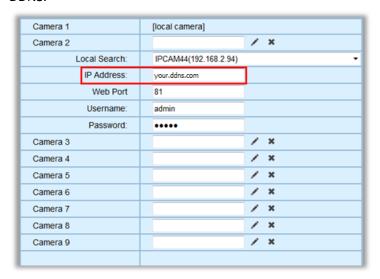
Multi-Camera



Local Search	All MJPEG IP camera in your local network	
IP Address: Port	Camera's IP address or you can fill in DDNS instead.	
Port	Camera's port	
Username	Camera's username	

Password	Camera's password
	Camera o passivora

If you want to view multiple cameras from Internet by DDNS, you could add the camera with DDNS.





This configuration is only available for IE browser.

Advanced

NTP Setting

Camera's time setting



Current Time	Camera's time and you can click Sync With PC to match it to your	
	computer's time	
Time Zone	Time zone of the place that the camera is located	
NTP Server	Time server of the network which is connected with the camera	
Automatic Calibration	To get current time from time server automatically by an interval	
Time Interval(by hour)	time.	
Daylight saving time	Add the correct time such as 60 or 30 if your are under daylight	
	saving time.	



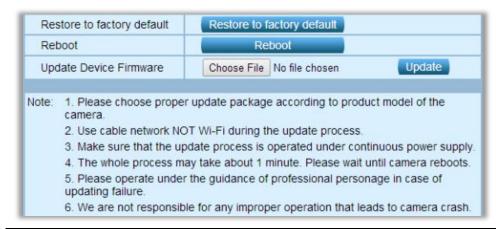
1. Since the camera has no built in battery, the time saved in its memory may be lost when the camera reboots and reset to default.

2. What is NTP server?

NTP server is a server computer that reads the actual time from a reference clock and distributes this information to its clients using network. Your camera will get the exact time through an NTP sever by offering the time zone of its location.

Firmware Update

Update the device to the latest firmware version which can be found on our official website.



Restore to factory	Restore the camera's settings to factory default	
default		
Reboot	Reboot the camera	
Update Device	Update camera's firmware	
Firmware		



Notice:

- 1. Please choose the appropriate firmware package based on your camera model.
- 2. Please ensure the camera is hard wired to your router via an ethernet cable.
- 3. Firmware updating... Please do not disconnect power supply or network connection while updating!
- 4. The entire update process takes about 1 minute. The camera will reboot once update complete
- 5. Please conduct firmware upgrade under professional guidance.

Recording Path

Recording is only available for IE browser.

Record Path	F:\	Select&Save
Alarm Recording Path	G:\	Select&Save

Recording Path Camera's destination folder to record to	
Alarm Recording Path Camera's destination folder to record to when the camera	
	alarming



Notice:

If it does not work, please run IE as administrator. Right click IE browser and pick Run as Administrator

Other Setting



On Screen Display	Show camera's information on video	
Power indicator LED	Control camera's front green LED	
Pan/Tilt speed	Set up camera's Pan/Tilt speed	
Go preset position on	Enable or disable go preset position on booting	
booting		

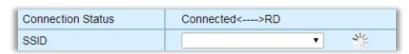


What are preset positions?

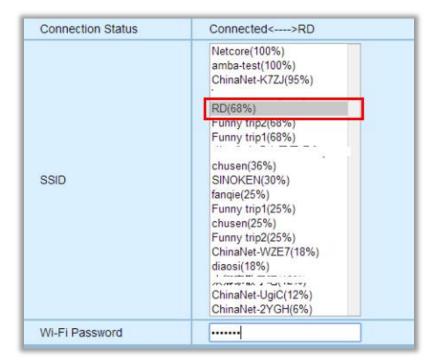
Preset positions are IP camera's memorized P/T positions. Once you set a preset position, you do not need to pan the camera to your preferred position. You simply press the preset button that corresponds to the preset you want to see and the camera will move to that position automatically.

Wireless Settings

1. Go to Wi-Fi setting page.



2. Click Rescan in Wireless Network and pick your preferred WI-FI SSID. Fill in the wireless network password. Click Save and wait for camera reboot.



3. After reboot, if Connection Status shows the SSID that means the camera has connected to the wireless network successfully.





For security concern, please set your Wi-Fi network as WEP encryption or OPEN.

Port Forwarding of Common Routers

Before you set up port forwarding manually, please check 2 things before you do it.

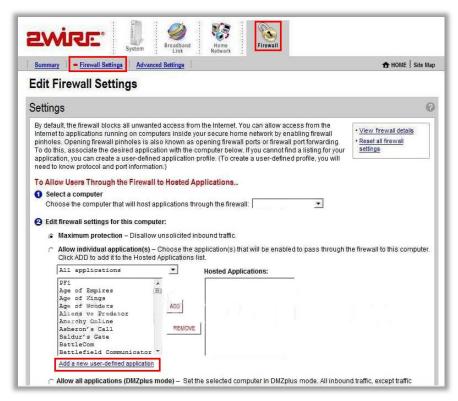
- 1. Make sure you know the router's brand, access URL, username and password. If you do not know them, please get help from the provider of the router, such as your ISP.
- 2. Find your camera's IP address and port. You can find them in your search tool.



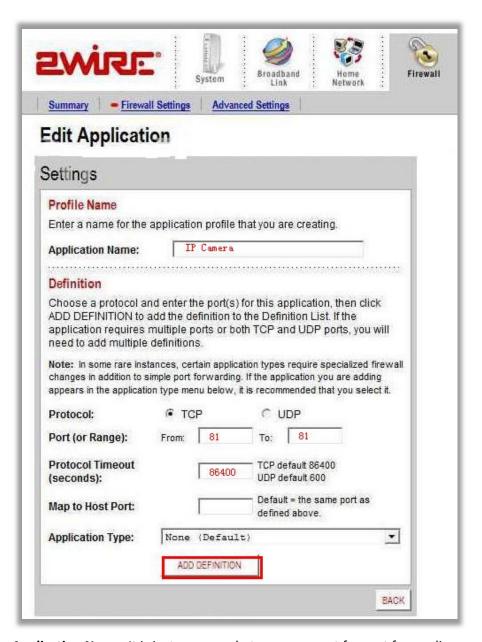
The IP and port of the camera is very important for port forwarding.

For 2wireRouter

- 1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. The default URL is http://192.168.1.1
- 2. Click the Firewall Settings button, and then click Add a new user-defined application



3. Add a new user-defined application.



Application Name: It is just a name whatever you want for port forwarding,

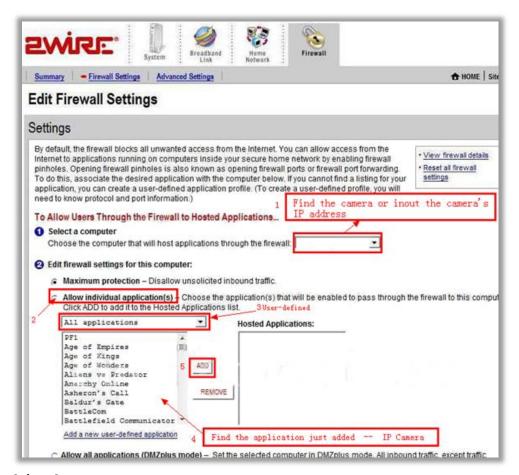
Protocol: TCP

Port for range: port of the camera

Protocol timeout: 86400

Click Add.

4. Sign the application for the IP Camera



Select Computer

Select the IP camera in the list. You could choose the IP address or input the camera's IP address; it depends on the router's model.

Select allow individual application

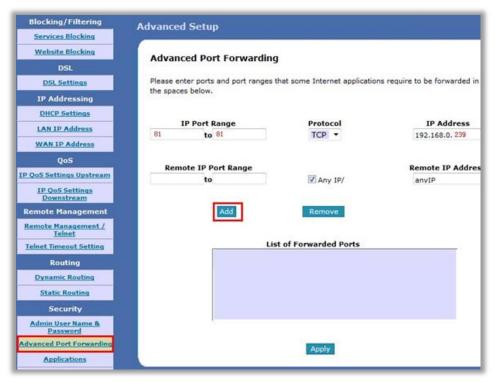
Select User-defined

Find your application you just added.

Click Add

For Actiontec Routers

- 1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For theses routers, in general, it is http://192.168.0.1
- 2. Click Advanced Port Forwarding



IP Port Range: The camera's port.

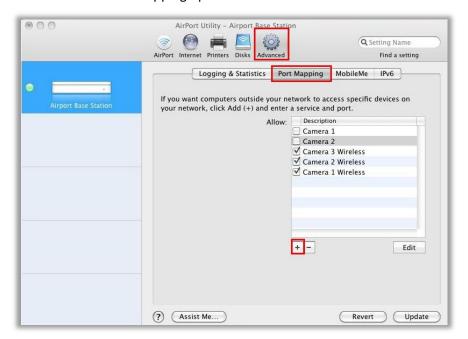
Protocol: TCP

IP Address: The camera's IP address.

Click Apply

For Apple Airport Extreme or Time Capsule

- 1. Go to your finder and type in Airport in the search bar and find your Airport Utility program.
- 2. Find the Advanced Tab at the top and select it
- 3. Choose the Port Mapping option.



Add a service for IP camera.

choose a service from the pop- ddress and ports that you wan	-up menu or enter the public and the p nt to map between.	rivate IF
Service:	Choose a service ▼]
Public UDP Port(s):	81	
Public TCP Port(s):	81	111111
Private IP Address:	192, 168, 1, 239	100000
Private UDP Port(s):	81	
Private TCP Port(s):	81	

Service: Choose a service

Public UDP Ports: the camera's port **Public TCP ports:** the camera's port

Private IP Address: the camera's IP address

Private UDP ports: the camera's port **Private TCP ports:** the camera's port

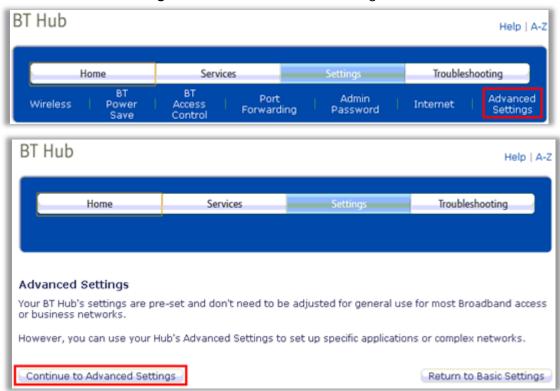
nter the description for this p	ort mapping entry.
Description:	Camera
	Advertise globally using Bonjour
Service Nan	ne:
Service Typ	oe:
When you are finished, click D	one to save your port mapping entry.



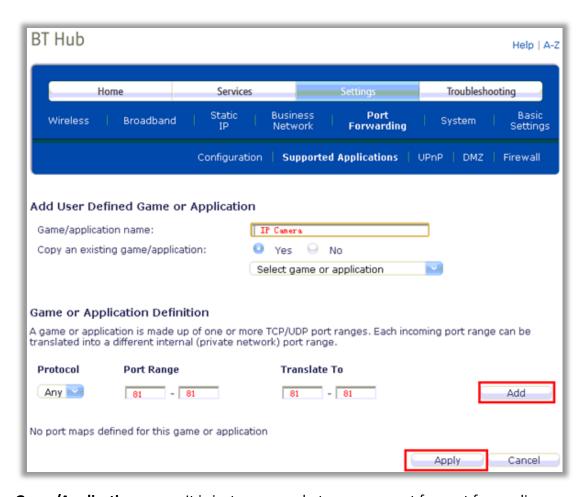
Be sure to click on the Update button after making these changes to upload them to your Airport.

For BT BTHomeHub Routers

- 1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For BT routers, in general, it is http://192.168.1.254
- 2. Click **Advanced Settings** and Continue to Advanced Settings



3. Click Supported Applications and Add new game or application



Game/Application name: It is just a name whatever you want for port forwarding,

Protocol: Any or TCP

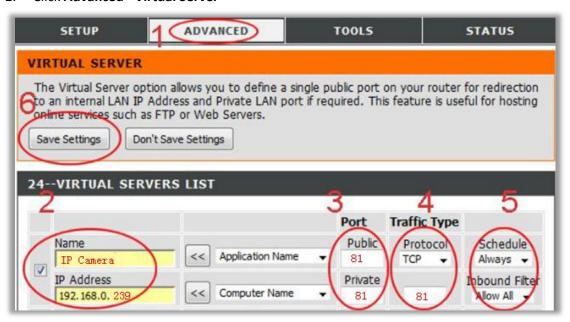
Port Range: The port of the camera

4. Click Configuration; Select the application you just added in Game or Application List. Select User Defended IP Address in the **Device** List. Enter the camera's IP address into **Device IP Address**.



For D-link Routers

- 1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For D-link routers, in general, it is http://192.168.0.1
- 2. Click Advanced Virtual Server



Name: It is just a name whatever you want for port forwarding,

Public: the camera's port **Private**: the camera's port

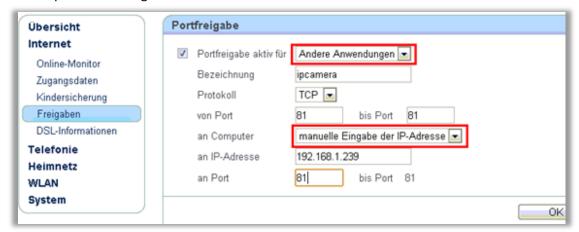
Protocol: TCP Schedule: Always Inbound Filter: Allow All Click Save Settings

For FRITZ!! Routers

- 1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser to login your camera. By default the IP address should be set to http://192.168.178.1
- 2. Click the Internet link and then click **Portfreigabe**. In the **portfreigabe**, click **Neue Portfreigabe**.



3. Do port forwarding



Select Andere Anwendungen from the Portfreigabe aktiv fur drop down box.

Bezeichnung: A name, whatever you want

Protokoll: TCP

von Port: The camera's port
bis Port:The camera's port

an Computer: manuelle Eingabe der IP-Adresse

an IP-Adresse: The camera's IP address

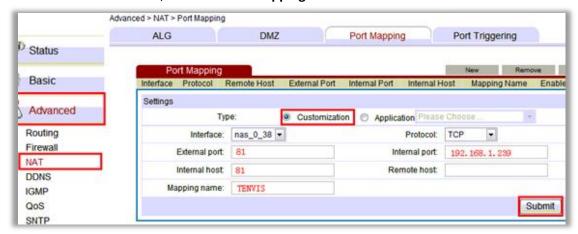
an Port: The camera's port

ForHuawei Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these

routers, in general, it is http://192.168.1.1

2. Click Advanced - NAT, and click Port Mapping



Name: Whatever you want, it is just a name, e.g. TENVIS IP Camera

Public: the camera's http port, e.g. 81 **Private**: the camera's http port, e.g. 81

Protocol: TCP Schedule: Always

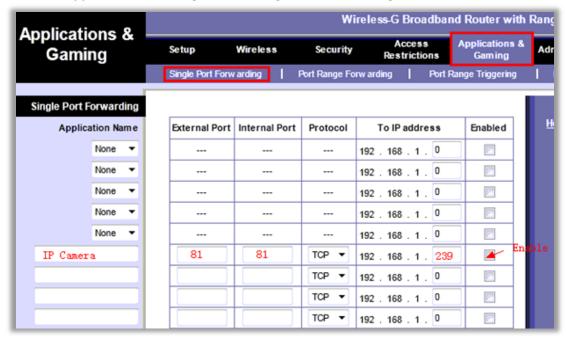
Inbound Filter: Allow All

Click Save Settings

For Linksys W Series Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these Series routers, in general, it is http://192.168.1.1

2. Click Application & Gaming and click Single Port Forwarding



Application Game: It is just a name whatever you want for port forwarding,

External Port: the camera's port

Internal Port: the camera's port

Protocol: TCP

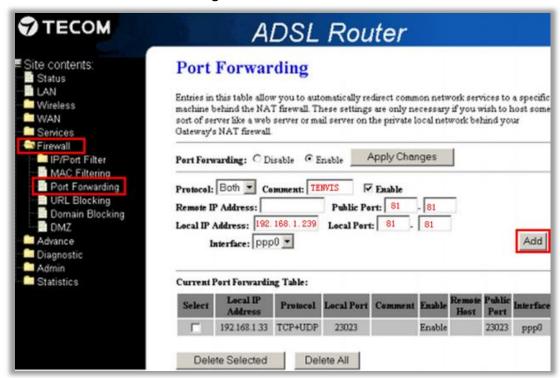
To IP address: the camera's IP address

Enabled: Enable

For Movistar Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.1

2. Click Firewall - Port Forwarding



Comment: It is just a name whatever you want for port forwarding,

Public Port: the camera's port **Local Port**: the camera's port **Remote IP Address**: N/A

Local IP Address: the camera's IP address

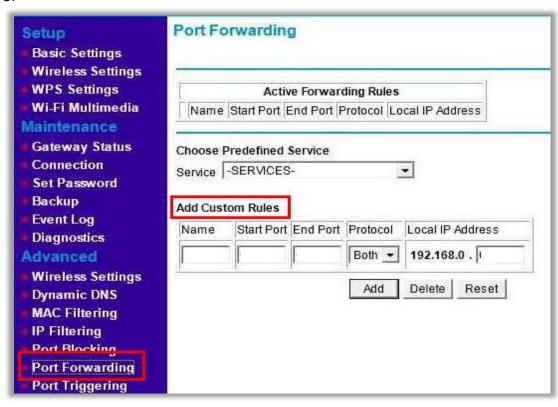
Click Add

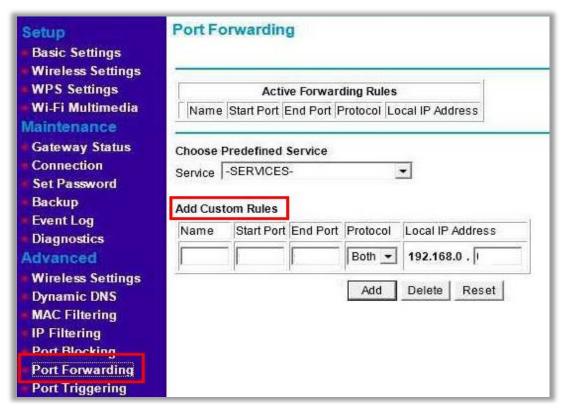
For Netgear Routers 1

- 1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.254
- 2. Click **Port Forwarding/Port Triggering** or **Port Forwarding**. Select **Port Forwarding** and select **Add Custom Service**



Or

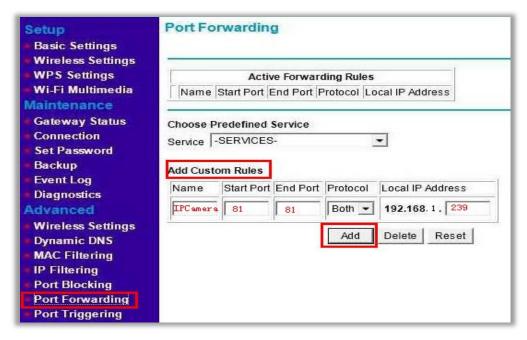




3. Do port forwarding



Or



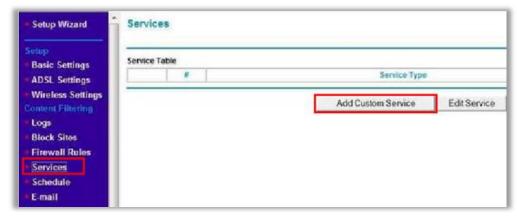
Service Name: It is just a name whatever you want for port forwarding,

Starting Port: port of the camera Ending Port: port of the camera Service IP Address: IP of the camera

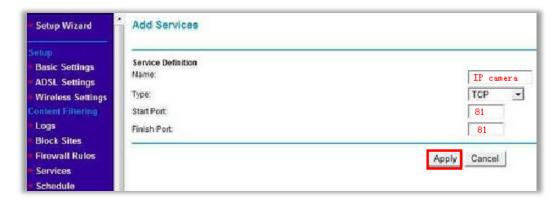
For Netgear Routers 2

1. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.254

2. Click the Services link and Click Add Custom Service button.



3. Add an IP camera service

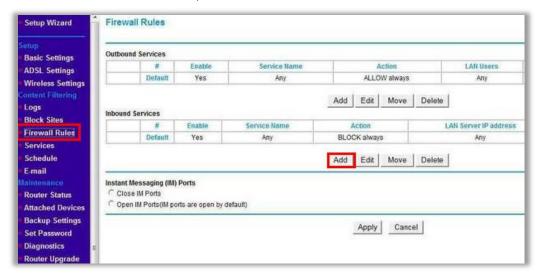


Name: Whatever you want

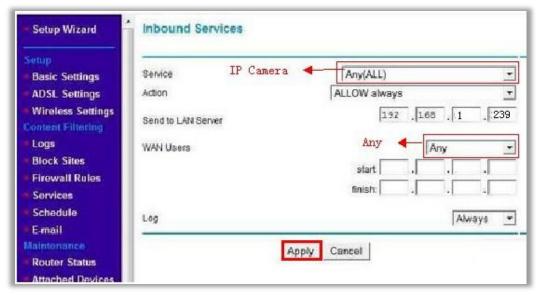
Type: TCP

Start Port: The camera's port **End Port**: The camera's port

4. Click the **Firewall Rules** link; and then click the **Inbound Services Add** button.



5. Add the user-defined IP Service in **Inbound Services**.



Service: Select the service you added in Service settings

Action: Allow always

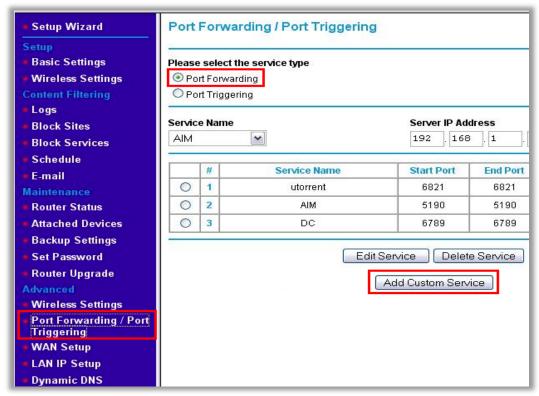
Send to LAN Server: The IP of the IP Camera

Wan User: Any Log: Always or None

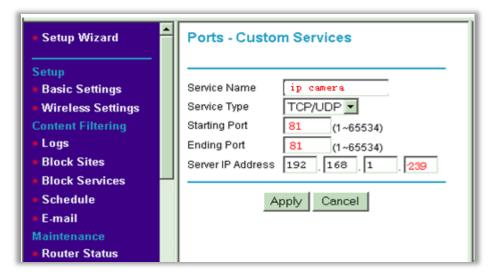
For Netgear Routers 3

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.254

2. Click the **Port Forwarding / Port Triggering** link and Click **Add Custom Service** button.



3. Add a customer service for the camera



Name: It is just a name, whatever you want for port forwarding,

Type: TCP

Start Port: The camera's port **End Port**: The camera's port

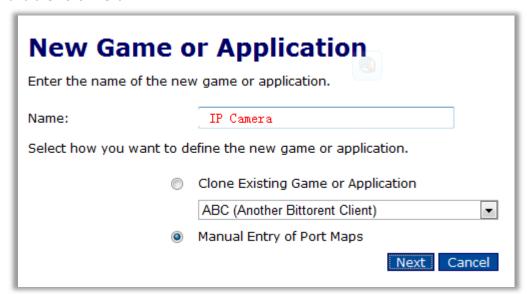
Server IP Address: The camera's IP address

For O2/ Thomson routers

- 1. Open http://192.168.1.254 in a web browser. If you are prompted for a login, the username is "Administrator" and the password is the serial number of your router (printed on its underside, excluding the bit in brackets).
- 2. Click Toolbox > Game & Application Sharing > Create a new game or application.



3. Enter the name of your application, e.g. IP Camera, click "Manual Entry of Port Maps", and then click Next.



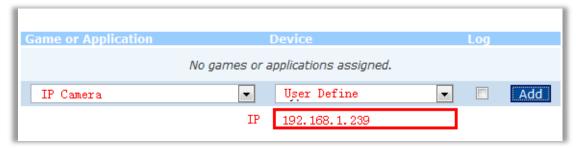
4. Select the protocol of your application from the drop down list under Protocol option. Enter port number of your camera in the two text boxes under Port Range option, and then click Add. Repeat this step for all the ports you need to forward.



5. Click Assign a game or application to a local network device.

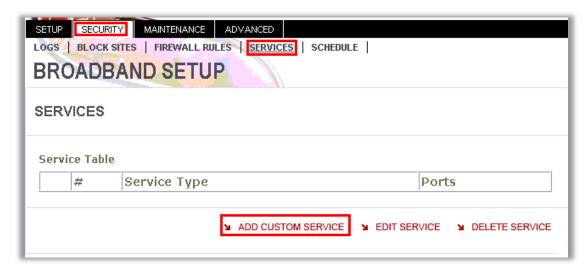


6. Select your newly created application in "Game or Application", e.g. "IP Camera" select your device in Device or select User Define and input the camera's IP address, e.g. "192.168.1.239", then click Add.



For Sky/Sagmen Routers

- 1. Enter the internal IP address of your router in the address bar of web browser. For Sky/Sagmen routers, in general, it is http://192.168.0.1
- 2. Click SECURITY SERVICE, and click ADD CUSTOM SERVICE



3. Add a Custom Service

WARDING

Name: It is just a name whatever you want for port forwarding,

Start Port: the camera's port **Finish Port**: the camera's port1

Type: TCP Click APPLY

4. Click **SECURITY - FIREWALL RULES - INBOUND SERVICE**, add the service to the camera

SETUP SECURITY MAINTENANCE ADVANCED LOGS BLOCK SITES FIREWALL RULES SERVICES SCHEDULE BROADBAND SETUP		
FIREWALL RULES - INBOUN	D SERVICES	
Service	TENVIS (81:81)	
Action	ALLOW always	
Send to LAN Server:	192 . 168 . 0 . 239	
WAN Users	Any	
Start:	0 .0 .0 .0	
Finish:	0.0.0.0	
Log	Never 💌	
	¥ APPLY ¥	

Service: Select the service you just added.

Action: ALLOW always

Send to LAN Server: The camera's IP address

WAN Users: Any

Log: Never

For Speedport Routers 1

1. Login your router. Click Netzwerk and NAT & Portregeln.



2. Click Neue Regel anlegen



3. Set port forwarding.



Bezeichnung: A name for port forwarding

IP-Adresse: The camera's IP address

Protokoll: TCP

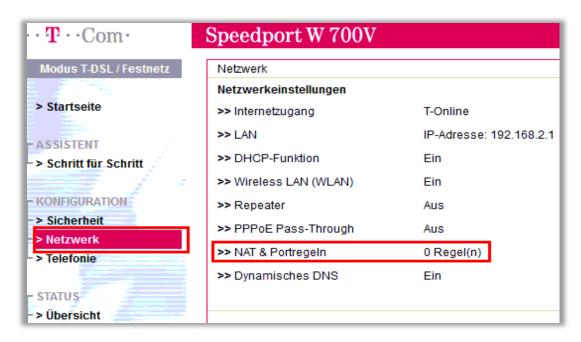
Ports: The camera's port **Ports:** The camera's port

4. Then the camera has been forwarded to Internet.

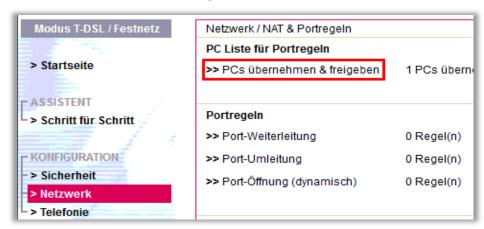


For Speedport (Deutsch) Routers 2

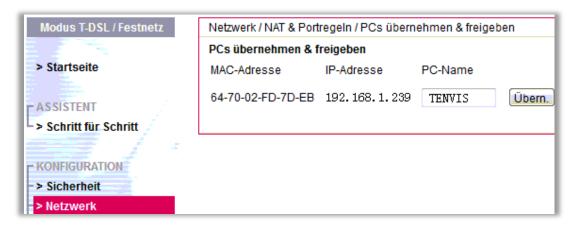
- 1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.1
- 2. Click Netzwert Nat & Portregeln, and click ADD CUSTOM SERVICE



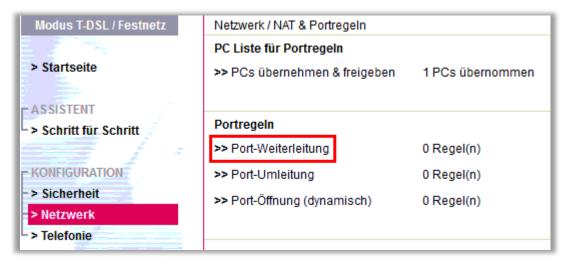
3. Click PCs ubernehmen & freigeben



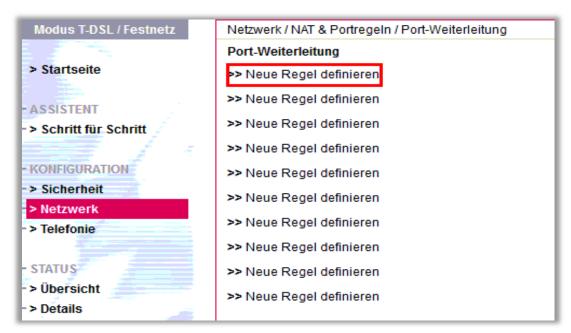
4. Find your IP camera here and Add PC-Name to the camera



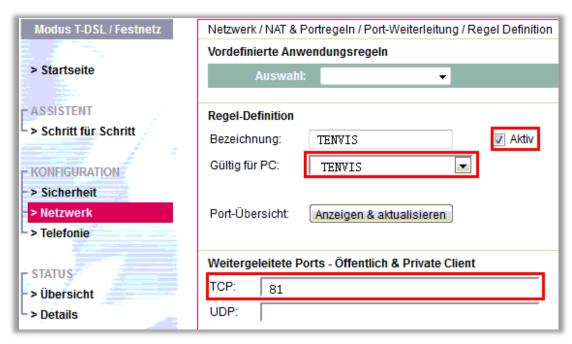
5. Click SECURITY - FIREWALLRULES, add the service to the camera



6. Select Neue Regel definieren



7. Set port forwarding



Bezeichnung: It is just a name whatever you want for port forwarding

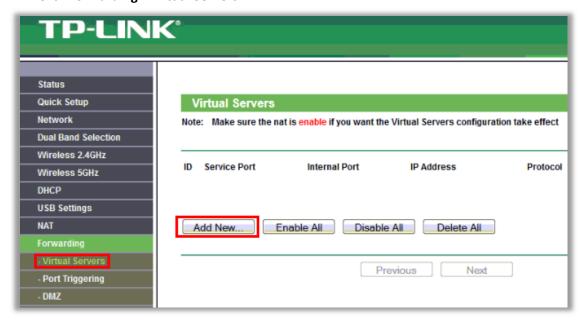
Gultig fur PC: Select the camera you just added

TCP: The camera's port

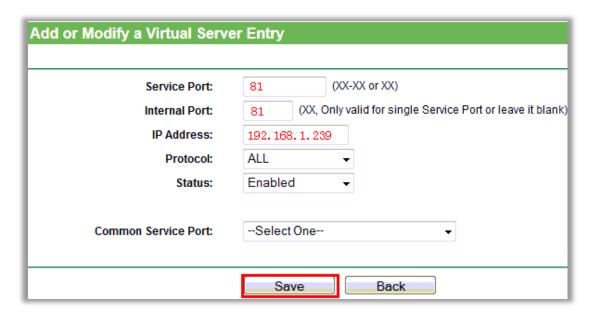
For TP-Link Routers 1

1. Enter the internal IP address of your router in the address bar of your browser. For TP-link routers, in general, it is http://192.168.1.1

2. Click Forwarding - Virtual Servers



3. Set port forwarding

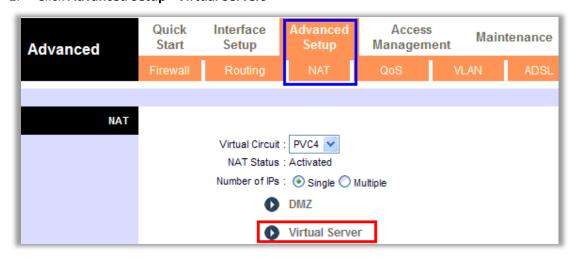


Service Port: the camera's port **Internal Port**: the camera's port **IP Address**: the camera's IP address

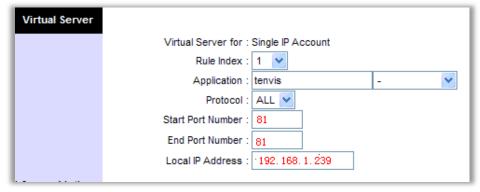
Protocol: ALL or TCP **Status:** Enabled Click **Save**

For TP-Link / Binatone Routers

- 1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.1
- 2. Click Advanced Setup Virtual Servers



3. Set port forwarding



Application: A name for port forwarding, e.g. TENVIS

Protocol: ALL or TCP

Start Port Number: the camera's http port, e.g. 81 **End Port Number**: the camera's http port, e.g. 81

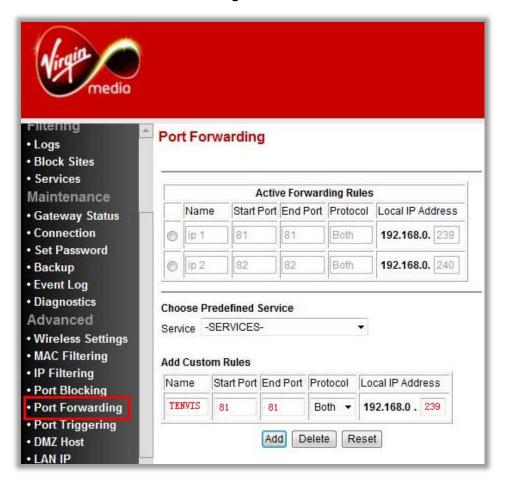
Local IP Address: the camera's IP address, e.g.192.168.1.239

Click Save

For Virgin Routers 1

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.0.1 or http://192.168.0.254

2. Click Advanced - Port Forwarding



Name: A name whatever you want for port forwarding

Start Port: the camera's port **End Port**: the camera's port

Local IP Address: the camera's IP address

Click Add

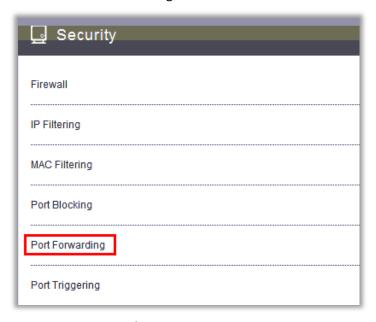
For Virgin Routers 2

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.0.1

2. Click Advanced Settings



3. Select Port Forwarding



4. Set Port Forwarding



Name: A name whatever you want for port forwarding

Start Port: the camera's port **End Port**: the camera's port

Protocol: TCP

IP Address: the camera's IP address

Click Add Rule

For Webtell Routers

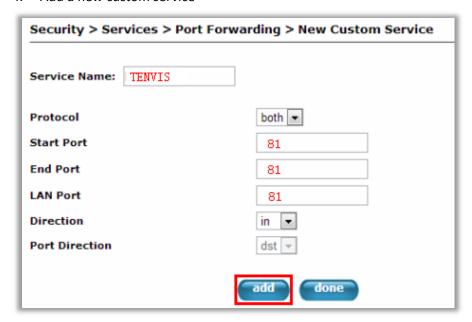
- 1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.200.1
- 2. Click Security Service Port Forwarding



3. Click new custom service

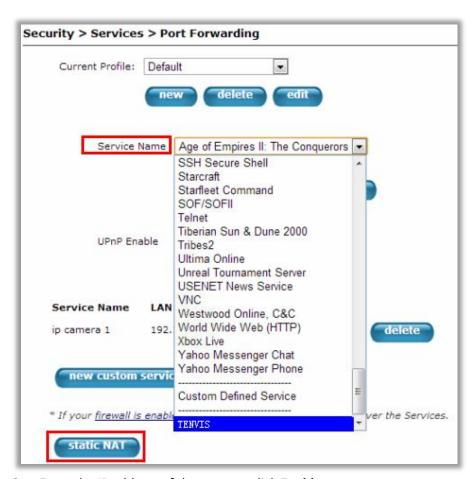


4. Add a new custom service



Service Name: A name whatever you want for port forwarding Select the service you just added.

5. And click static NAT

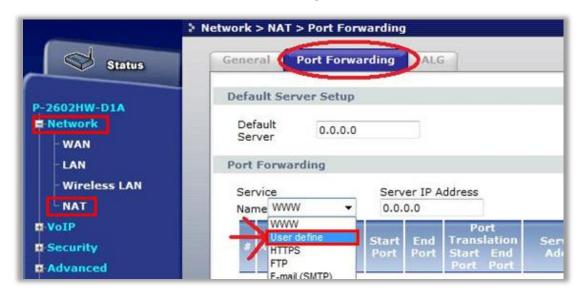


6. Enter the IP address of the camera, click **Enable**.

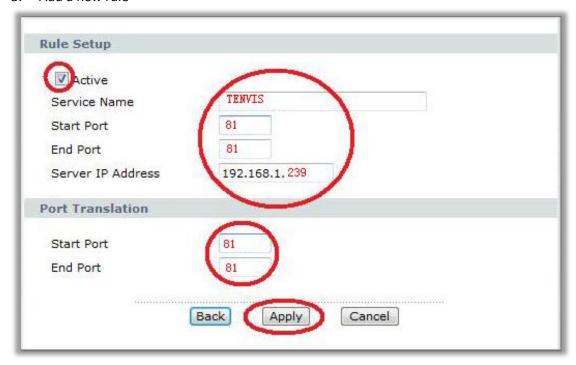


For Zyxel Routers

- 1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.254
- 2. Click Network NAT, and click Port Forwarding



3. Add a new rule



Service Name: It is just a name whatever you want for port forwarding

Start Port: the camera's port **End Port:** the camera's port

IP Address: The camera's IP address

Click Apply